PCT/1B 03/04532

A. CLASSIF IPC 7	ICATION OF SUBJECT MATTER G11B7/00		
According to	International Patent Classification (IPC) or to both national classificati	on and IPC	
B. FIELDS 9			
IPC 7	cumentation searched (classification system followed by classification $G11B$	symbols)	
	·		
Documentati	on searched other than minimum documentation to the extent that su	ch documents are included in the fields sea	ırched
Electronic da	ata base consulted during the international search (name of data base	and, where practical, search terms used)	
EPO-Int	ternal, WPI Data, PAJ		
	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to dalm No.
A	EP 0 847 047 A (ALPS ELECTRIC CO 1 10 June 1998 (1998-06-10) the whole document	LTD)	1-6
A	US 5 872 439 A (NOMURA MASARU) 16 February 1999 (1999-02-16) the whole document		1-6
<b>A</b>	US 6 259 663 B1 (TATEISHI KIYOSHI 10 July 2001 (2001-07-10) the whole document	)	1-6
<b>A</b>	DE 100 48 920 A (BOSCH GMBH ROBER 11 April 2002 (2002-04-11) the whole document	T)	1–6
		/	
	·	/	
	·	•	
X Furt	ther documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.
		"T" later document published after the Inte- or priority date and not in conflict with	mational filing date the application but
consi	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international	cited to understand the principle or the invention	
filing		"X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the do	be considered to
which citation	n is cited to establish the publication date of another on or other special reason (as specified)	"Y" document of particular relevance; the cannot be considered to involve an in	claimed invention ventive step when the
other	nent referring to an oral disclosure, use, exhibition or means tended to the international filing date but	document is combined with one or ma ments, such combination being obvious in the art.	
later	than the priority date claimed	"&" document member of the same patent	
	e actual completion of the international search	Date of mailing of the international se	a on report
	February 2004	17/02/2004	
Natic and	mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Kyranos, E	

1



PCT/TIB 03/04532

Calegory *	tion) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Α	WO 02 09102 A (WATANABE TAKAHIRO ;IMAMURA YASUSHI (JP); KOBAYASHI YUICHI (JP); MA) 31 January 2002 (2002-01-31) the whole document	1-6		
	•			
	·			
	·			

1



PCT/1B 03/04532

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0847047	Α	10-06-1998	JP EP TW	10172161 0847047 397978	A1	26-06-1998 10-06-1998 11-07-2000
			US	5995463	_	30-11-1999
US 5872439	Α	16-02-1999	JP DE	9045022 19630986	A1	14-02-1997 06-02-1997
US 6259663		10.07.0001	KR	218129		01-10-1999
05 0259003	B1 	10-07-2001 	JP 	11161958 	A 	18-06-1999
DE 10048920	A	11-04-2002	DE WO EP	10048920 0229794 1328931	A1	11-04-2002 11-04-2002 23-07-2003
WO 0209102	Α	31-01-2002	JP WO	2002042354 0209102	• •	08-02-2002 31-01-2002